

CLAIMS

1. A recording apparatus for recording first video data and data which time-sequentially corresponds to said first video data onto a disc-shaped recording medium,

5 wherein when a change in format is detected in at least one of the first video data which is continuously supplied and the data which is supplied so as to time-sequentially correspond to said first video data, each of said first video data and said data which is supplied so as to time-sequentially correspond to said first video data is divided at a position corresponding to said change and recorded onto said disc-shaped recording medium.

2. A recording apparatus according to claim 1, wherein the data which time-sequentially corresponds to said first video data is at least second video data which is the data based on said first video data and whose transmission rate is lower than that of said first video data.

3. A recording apparatus according to claim 2, wherein said division is executed at a boundary position of a unit in which random access of said second video data can be performed.

4. A recording apparatus according to claim 2, wherein in the case where said random access unit of said second video data comprises a plurality of frames and said dividing position does not coincide with the boundary of said random access unit, said boundary is forcedly made coincident with said dividing position.

5. A recording apparatus according to claim 1,
wherein the data which time-sequentially corresponds to said
first video data is at least audio data.

6. A recording apparatus according to claim 5,
5 wherein said audio data is audio data which has been encoded
by linear PCM or audio data which has been encoded by an
encoding system other than linear PCM data, and said format
change is a change between the audio data encoded by said
linear PCM and the audio data encoded by the encoding system
10 other than said linear PCM.

7. A recording apparatus according to claim 1,
wherein the data which time-sequentially corresponds to said
first video data is at least meta data corresponding to said
first video data.

8. A recording apparatus according to claim 1,
15 wherein in the case where a random access unit of said first
video data comprises a plurality of frames and said dividing
position does not coincide with a boundary of said random
access unit, said boundary is forcedly made coincident with
said dividing position.
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9. A recording apparatus according to claim 1,
wherein the data which is formed by said division is formed
so as to include a position corresponding to said change
so as to have a surplus time for said position.

10. A recording apparatus according to claim 1,
25 wherein the data which time-sequentially corresponds to said
first video data comprises: second video data which is the

data based on said first video data and whose transmission rate is lower than that of said first video data; audio data; and meta data for said first video data.

11. A recording apparatus according to claim 10,
5 wherein said division is executed at a boundary position of a unit in which random access of said second video data can be performed.

12. A recording apparatus according to claim 10,
10 wherein said audio data is audio data which has been encoded by linear PCM or audio data which has been encoded by an encoding system other than linear PCM data, and said format change is a change between the audio data encoded by said linear PCM and said audio data encoded by the encoding system other than said linear PCM.

13. A recording method of recording first video data
15 and data which time-sequentially corresponds to said first video data onto a disc-shaped recording medium, wherein
when a change in format is detected in at least
one of the first video data which is continuously supplied
20 and the data which is supplied so as to time-sequentially correspond to said first video data, each of said first video data and said data which is supplied so as to
time-sequentially correspond to said first video data is
divided at a position corresponding to said change and
25 recorded onto said disc-shaped recording medium.